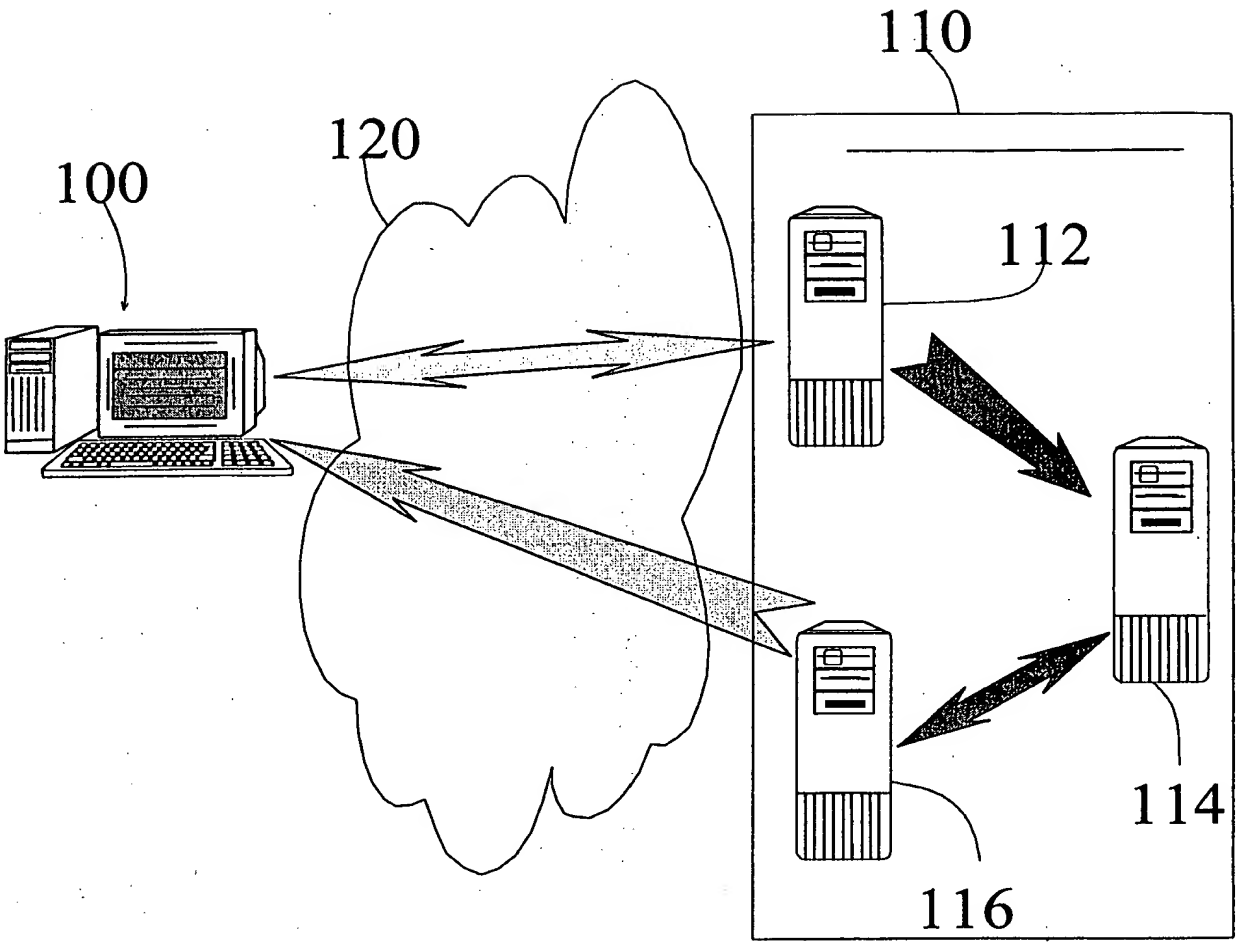

FIG 1

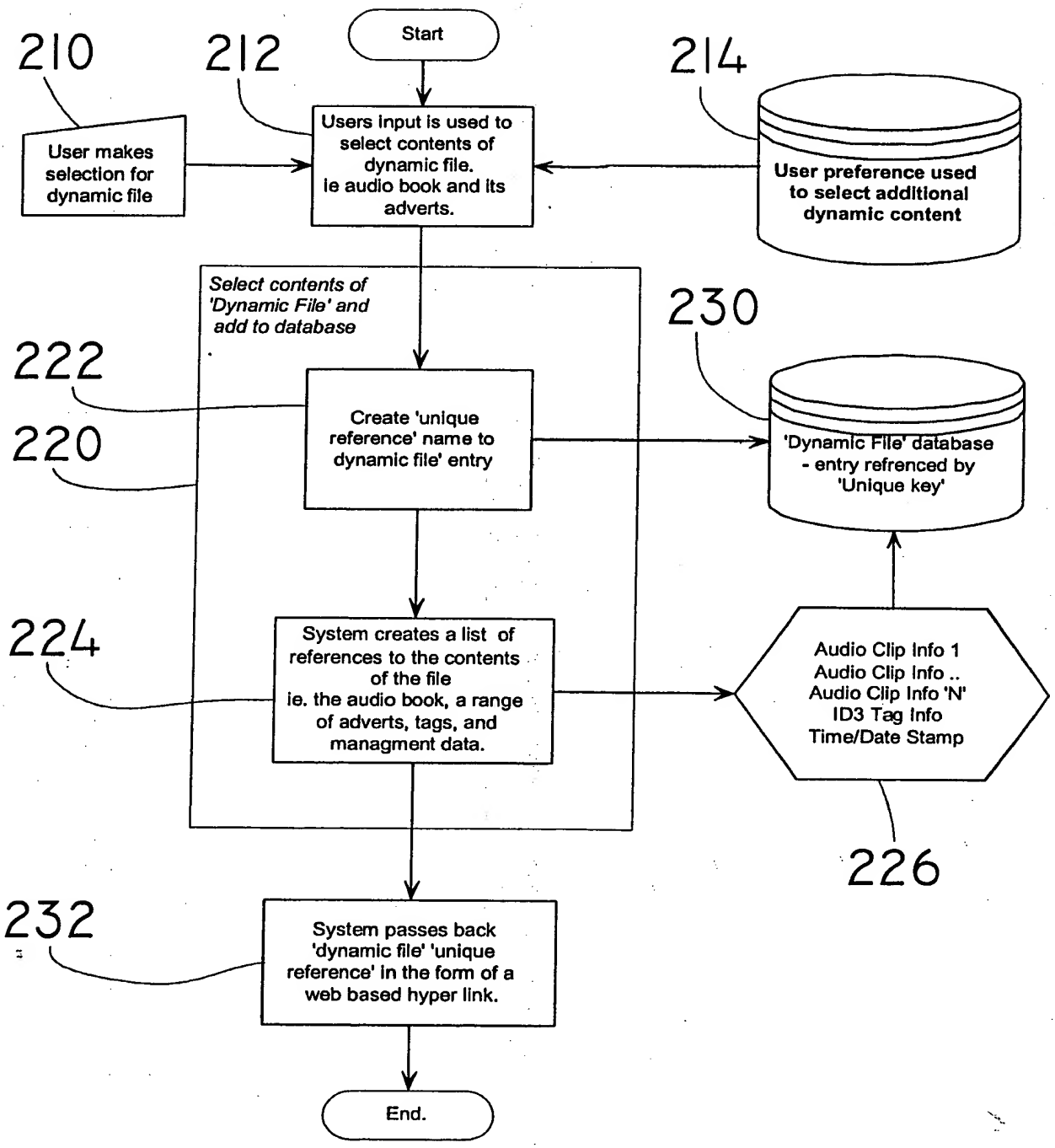
210
212
Start
214
User makes selection for dynamic file
Users input is used to select contents of dynamic file. ie audio book and its adverts.
User preference used to select additional dynamic content
Select contents of 'Dynamic File' and add to database
230
222
220
Create 'unique reference' name to dynamic file' entry
'Dynamic File' database - entry refrenced by 'Unique key'
224
System creates a list of references to the contents of the file ie. the audio book, a range of adverts, tags, and managment data.
Audio Clip Info 1
Audio Clip Info ..
Audio Clip Info 'N'
ID3 Tag Info
Time/Date Stamp
226
232
System passes back 'dynamic file' 'unique reference' in the form of a web based hyper link.
End.

FIG 2

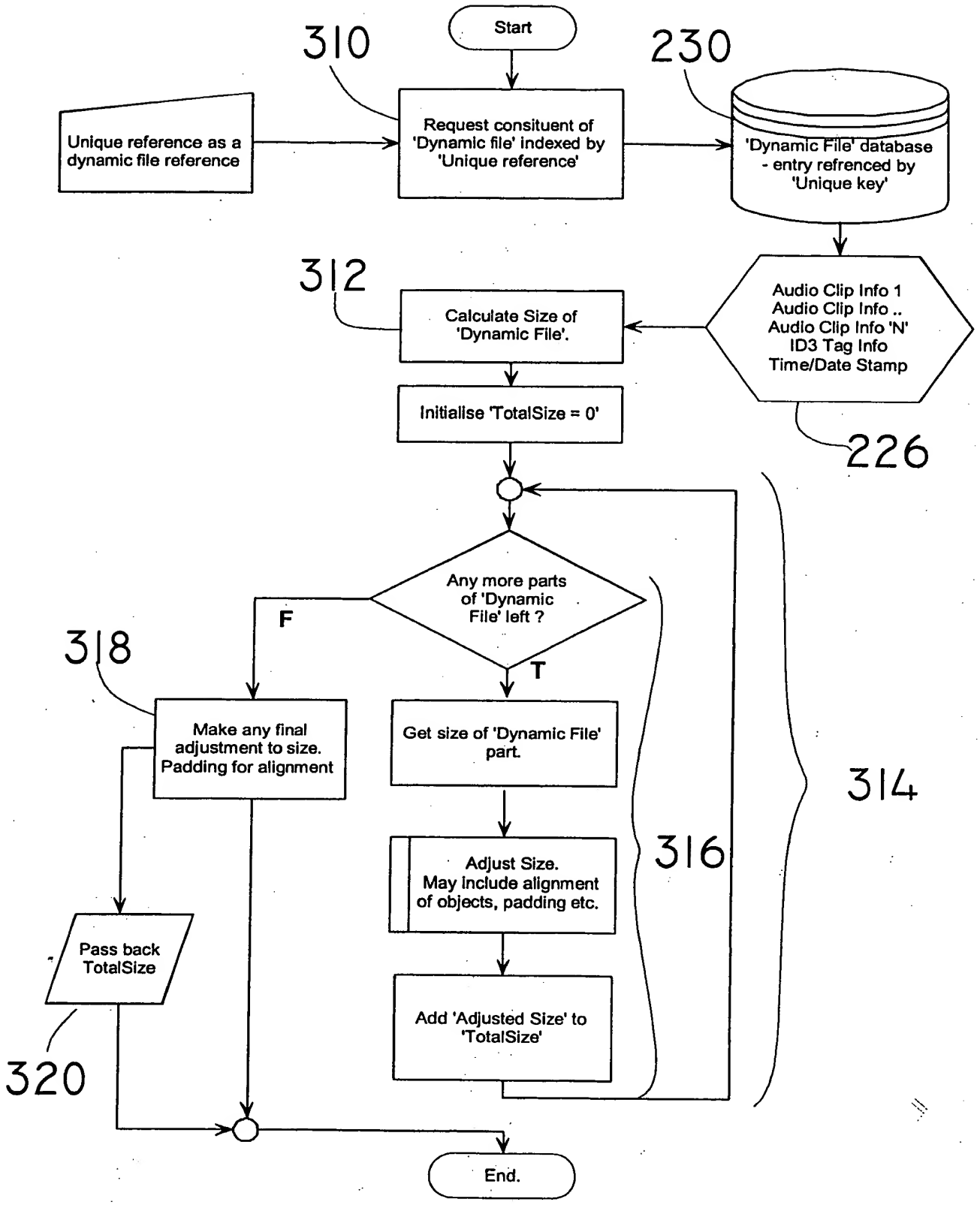
Start
310
230
Unique reference as a dynamic file reference
Request consituent of 'Dynamic file' indexed by 'Unique reference'
'Dynamic File' database - entry refrenced by 'Unique key'
312
Audio Clip Info 1
Audio Clip Info ..
Audio Clip Info 'N'
ID3 Tag Info
Time/Date Stamp
Calculate Size of 'Dynamic File'.
Initialise 'TotalSize = 0'
226
Any more parts of 'Dynamic File' left ?
F
T
318
Make any final adjustment to size. Padding for alignment
Get size of 'Dynamic File' part.
314
316
Adjust Size. May include alignment of objects, padding etc.
Pass back TotalSize
Add 'Adjusted Size' to 'TotalSize'
320
End.

FIG 3

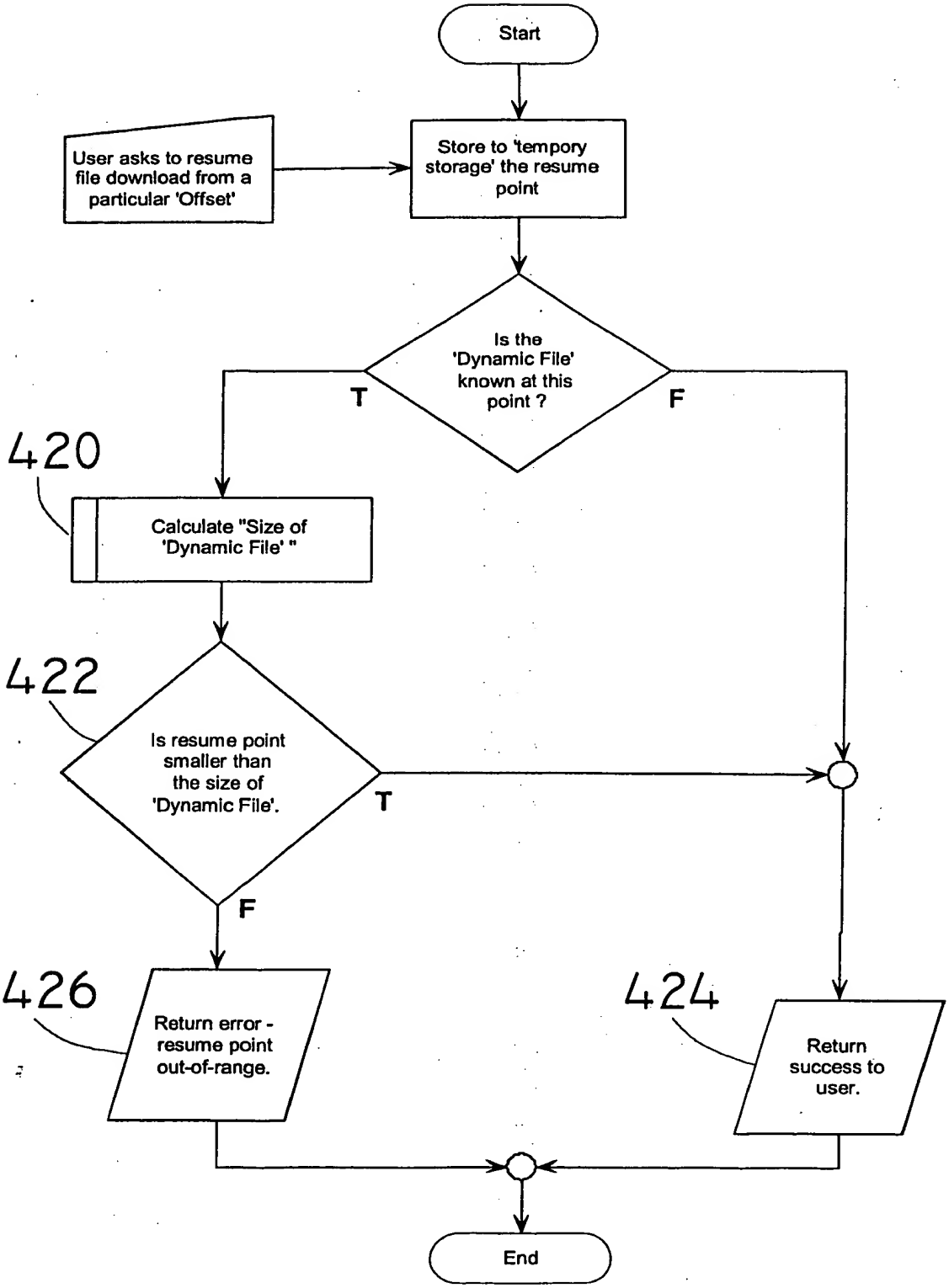
Start
User asks to resume file download from a particular 'Offset'
Store to 'tempory storage' the resume point
Is the 'Dynamic File' known at this point ?
T
F
420
Calculate "Size of 'Dynamic File' "
422
Is resume point smaller than the size of 'Dynamic File'.
T
F
426
Return error - resume point out-of-range.
424
Return success to user.
End

FIG 4

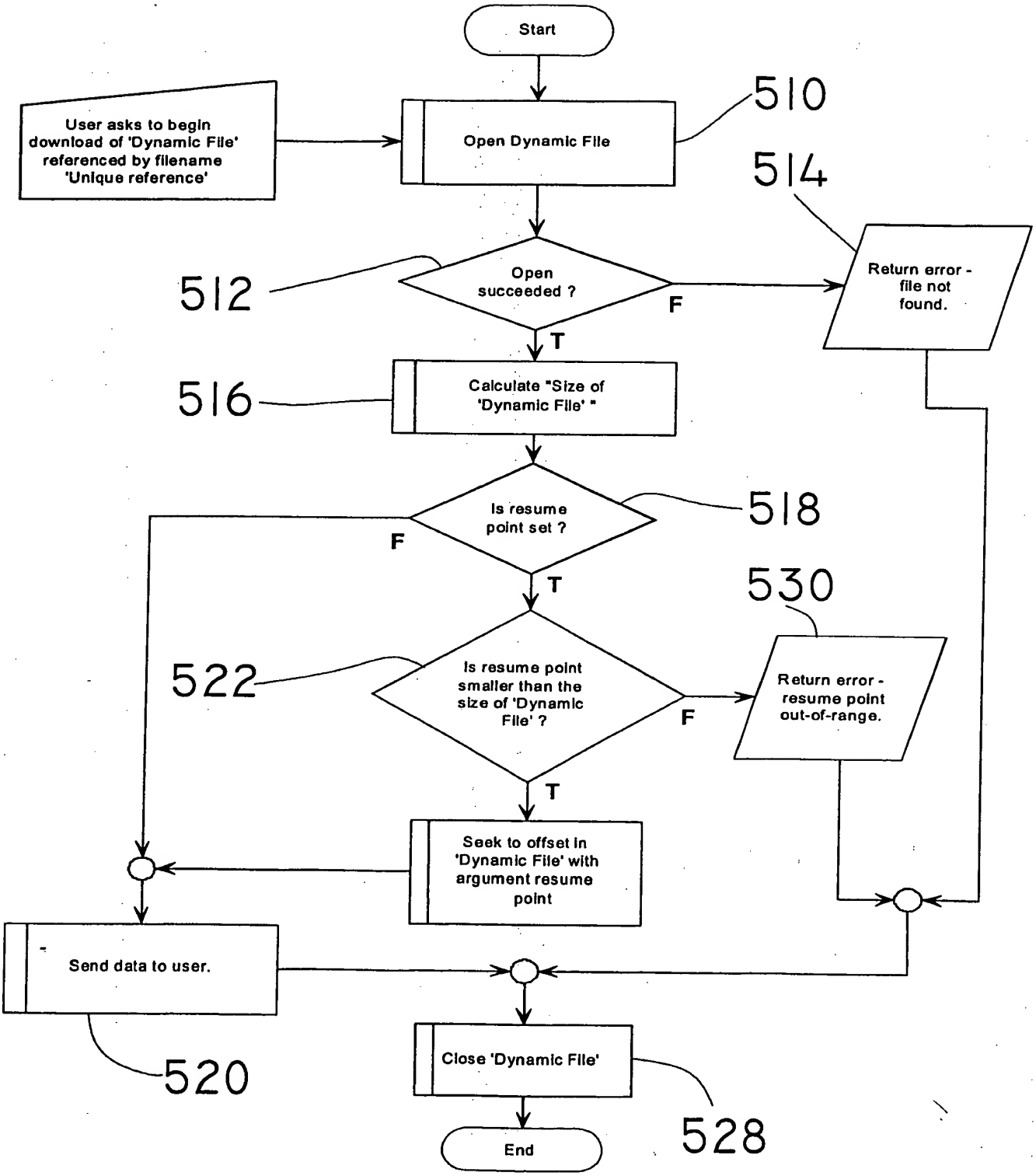
Start
User asks to begin download of 'Dynamic File' referenced by filename 'Unique reference'
Open Dynamic File
510
514
Open succeeded ?
512
F
Return error - file not found.
T
Calculate "Size of 'Dynamic File' "
516
Is resume point set ?
518
F
T
530
Is resume point smaller than the size of 'Dynamic File' ?
522
F
Return error - resume point out-of-range.
T
Seek to offset in 'Dynamic File' with argument resume point
Send data to user.
520
Close 'Dynamic File'
528
End

FIG 5

Open Dynamic File

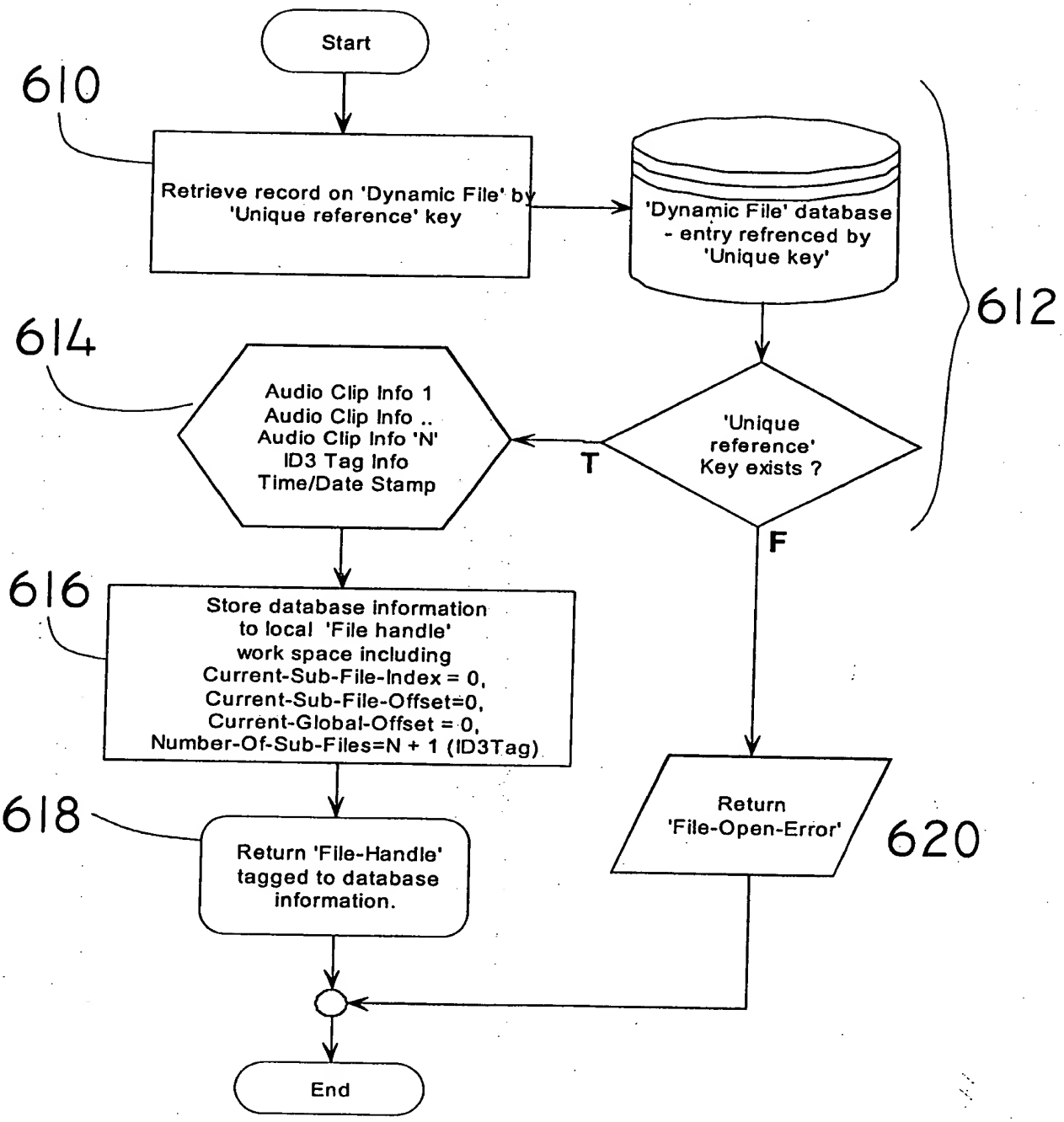

FIG 6

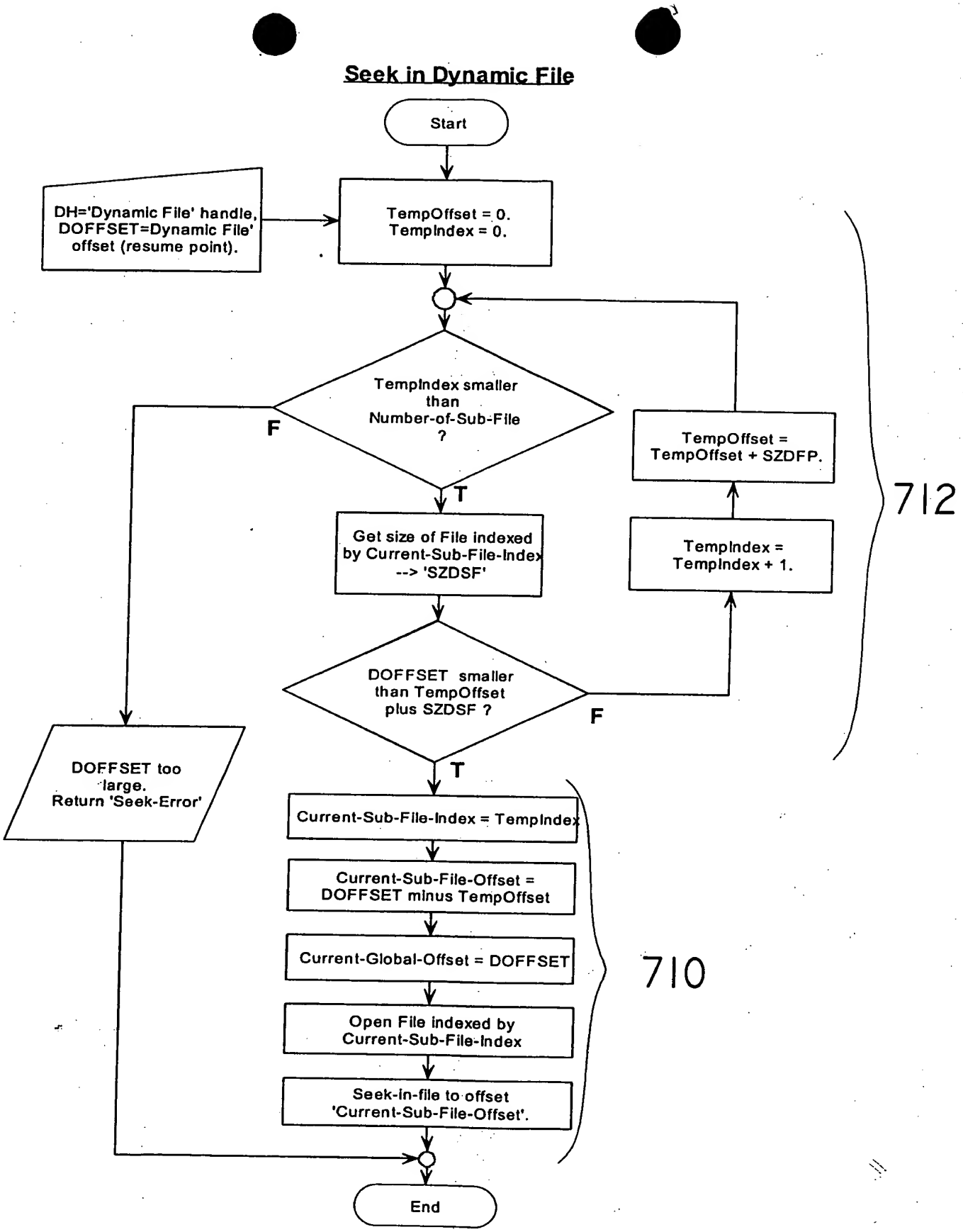
Seek in Dynamic File
Start
DH='Dynamic File' handle, DOFFSET=Dynamic File' offset (resume point).
TempOffset = 0.
TempIndex = 0.
TempIndex smaller than Number-of-Sub-File ?
F
T
Get size of File indexed by Current-Sub-File-Index --> 'SZDSF'
DOFFSET smaller than TempOffset plus SZDSF ?
F
T
TempOffset = TempOffset + SZDFP.
TempIndex = TempIndex + 1.
712
DOFFSET too large. Return 'Seek-Error'
Current-Sub-File-Index = TempIndex
Current-Sub-File-Offset = DOFFSET minus TempOffset
Current-Global-Offset = DOFFSET
Open File indexed by Current-Sub-File-Index
Seek-in-file to offset 'Current-Sub-File-Offset'.
710
End

FIG 7

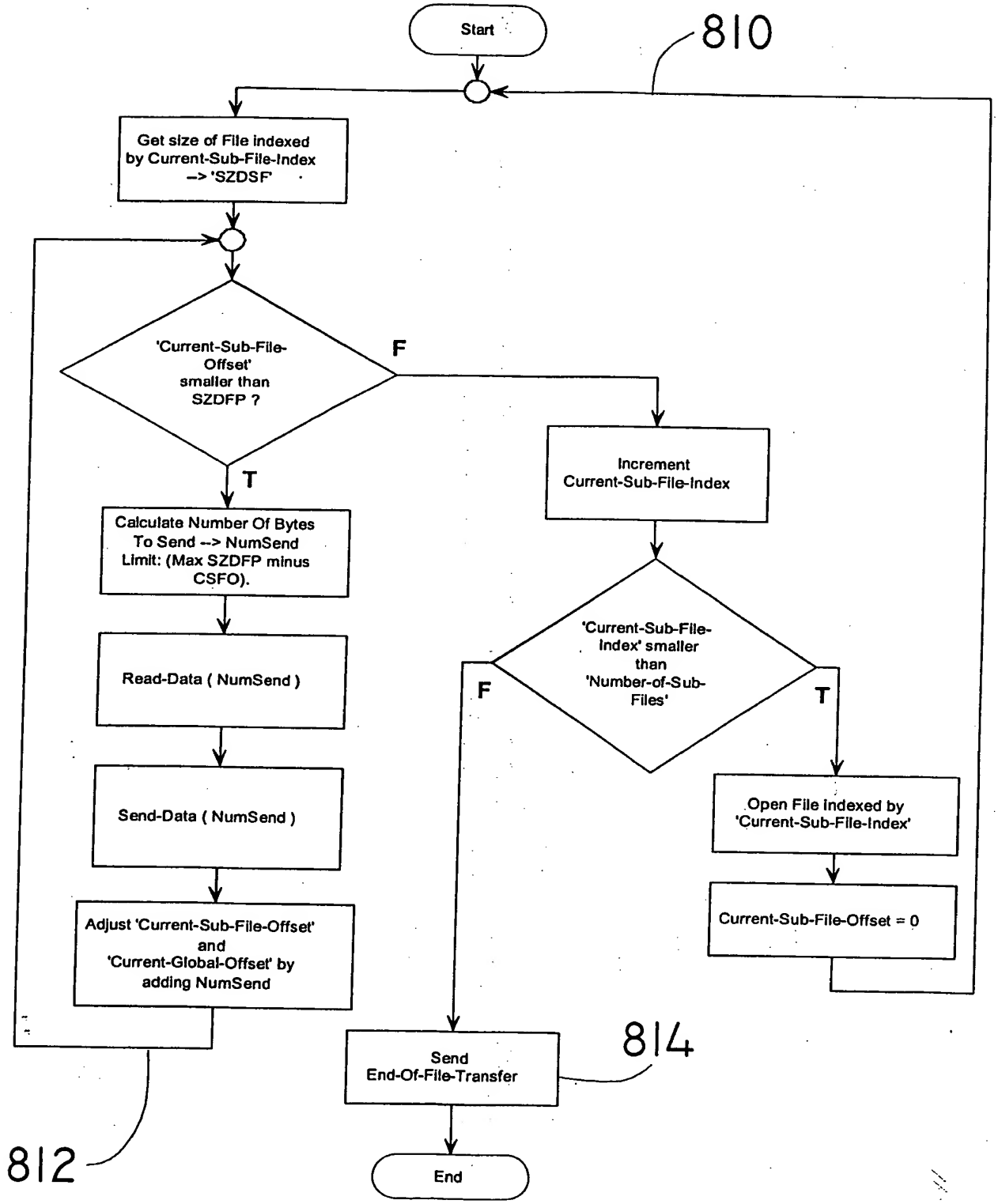
Start
810
Get size of File indexed by Current-Sub-File-Index --> 'SZDSF'
'Current-Sub-File-Offset' smaller than SZDFP ?
F
T
Increment Current-Sub-File-Index
Calculate Number Of Bytes To Send --> NumSend Limit: (Max SZDFP minus CSFO).
'Current-Sub-File-Index' smaller than 'Number-of-Sub-Files'
F
T
Read-Data (NumSend)
Send-Data (NumSend)
Open File indexed by 'Current-Sub-File-Index'
Current-Sub-File-Offset = 0
Adjust 'Current-Sub-File-Offset' and 'Current-Global-Offset' by adding NumSend
Send End-Of-File-Transfer
814
812
End

FIG 8